AUTODOC CLUB

How to change rear shock absorbers on **Mercedes Vito W638** – replacement guide

VIDEO TUTORIAL

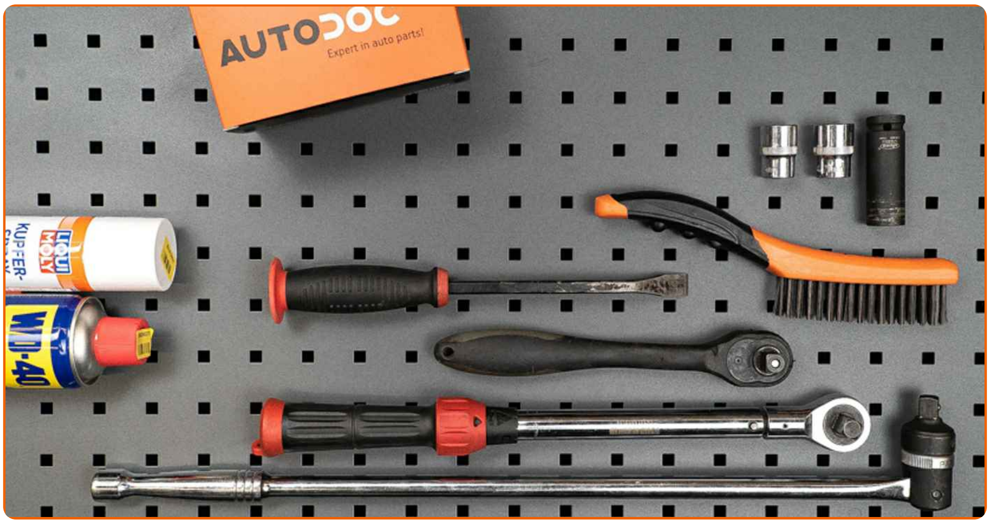


Important!

This replacement procedure can be used for:
MERCEDES-BENZ VITO Bus (638) 108 D 2.3 (638.164), MERCEDES-BENZ VITO Bus (638) 110 TD 2.3 (638.174), MERCEDES-BENZ VITO Bus (638) 113 2.0 (638.114, 638.194), MERCEDES-BENZ V-Class (W638/2) V 230 TD (638.274), MERCEDES-BENZ V-Class (W638/2) V 230 (638.234, 638.294), MERCEDES-BENZ VITO Bus (638) 114 2.3 (638.134, 638.194), MERCEDES-BENZ V-Class (W638/2) V 280 (638.244, 638.294), MERCEDES-BENZ V-Class (W638/2) V 200 (638.214, 638.294), MERCEDES-BENZ VITO Box (638) 108 D 2.3 (638.064, 638.068), MERCEDES-BENZ VITO Box (638) 110 D 2.3 (638.074, 638.078), MERCEDES-BENZ VITO Box (638) 113 2.0 (638.014, 638.094), MERCEDES-BENZ VITO Box (638) 114 2.3 (638.034, 638.094), MERCEDES-BENZ V-Class (W638/2) V 200 CDI (638.294), MERCEDES-BENZ V-Class (W638/2) V 220 CDI (638.294), MERCEDES-BENZ VITO Bus (638) 108 CDI 2.2 (638.194), (+ 4)

The steps may slightly vary depending on the car design.

REPLACEMENT: SHOCK ABSORBERS – MERCEDES VITO W638. TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # 21
- Wheel impact socket #17
- Torque wrench
- Tap wrench
- Crow bar
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: shock absorbers – Mercedes Vito W638. AUTODOC recommends:

- Both shock absorbers of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock absorbers of the rear suspension.
- All work should be done with the engine stopped.

REPLACEMENT: SHOCK ABSORBERS – MERCEDES VITO W638. USE THE FOLLOWING PROCEDURE:

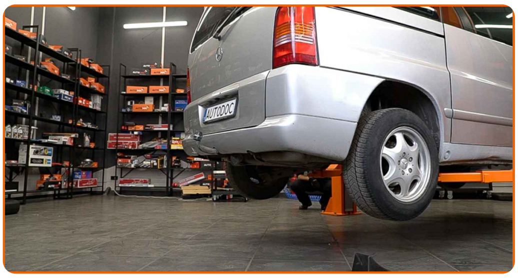
1 Secure the wheels with chocks.



2 Loosen the wheel mounting bolts. Use wheel impact socket #17.



3 Raise the rear of the car and secure on supports.



4 Unscrew the wheel bolts.



Replacement: shock absorbers – Mercedes Vito W638. Tip:

- To avoid injury, hold up the wheel when unscrewing the bolts.

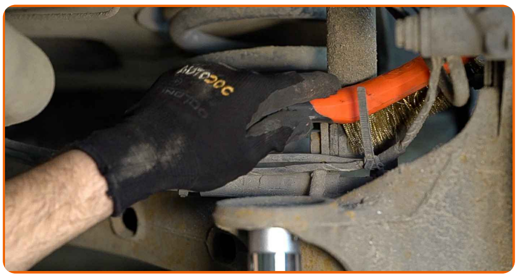
5 Remove the wheel.



6 Support the rear suspension beam. Use a hydraulic transmission jack.



7.1 Clean the shock absorber fasteners.



7.2

Use a wire brush. Use WD-40 spray.



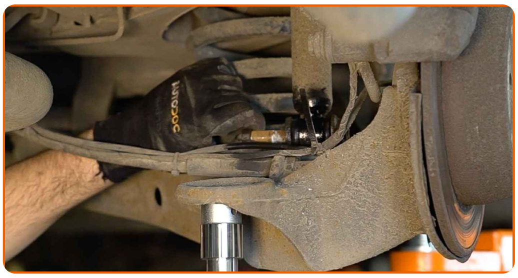
8

Unscrew the lower fastener of the shock absorber. Use a drive socket #21. Use a crowbar. Use a tap wrench.



9

Remove the fastening bolt.



10

Detach the lower part of the shock absorber. Use a crowbar.



11

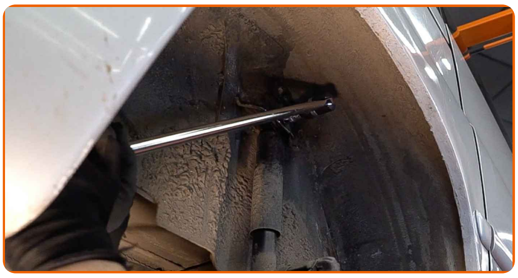
Lower the hydraulic transmission jack by 10-15 cm.



AUTODOC recommends:

- Replacement: shock absorbers – Mercedes Vito W638. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

12 Unscrew the upper fastener of the shock absorber. Use a drive socket #21. Use a tap wrench.



AUTODOC recommends:

- Important! Hold the shock absorber while unscrewing the fastening bolts. Mercedes Vito W638

13 Remove the shock absorber.



Replacement: shock absorbers – Mercedes Vito W638. Tip:

- Before installing a new shock absorber you should pump it manually 3-5 times.

14 Place the shock absorber in the wheel arch and fasten it.



Replacement: shock absorbers – Mercedes Vito W638. AUTODOC recommends:

- To avoid injury, hold the shock absorber cautiously tight when screwing in the fastening bolts.

15 Screw the upper fastener of the shock absorber. Use a drive socket #21.



16 Treat the shock absorber mounting seats. Use WD-40 spray.



17 Attach the lower part of the shock absorber. Install the fastening bolt.



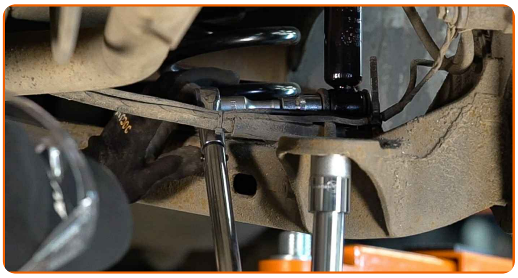
18 Screw in the lower fastener of the shock absorber. Use a drive socket #21.



19 Support the rear suspension beam. Use a hydraulic transmission jack.



20 Tighten the lower fastener of the shock absorber. Use a drive socket #21. Use a torque wrench. Tighten it to 133 Nm torque.



21 Remove the mounting from under the rear axle beam.



AUTODOC recommends:

- Mercedes Vito W638 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

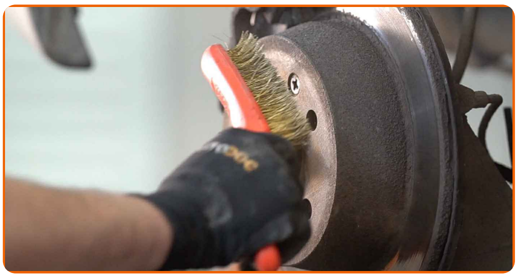
22

Tighten the top shock absorber fastening. Use a drive socket #21. Use a torque wrench. Tighten it to 120 Nm torque.



23

Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.



24

Install the wheel.



Replacement: shock absorbers – Mercedes Vito W638. AUTODOC experts recommend:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

25 Screw in the wheel bolts. Use wheel impact socket #17.



26 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 175 Nm torque.



27 Remove the jacks and chocks.

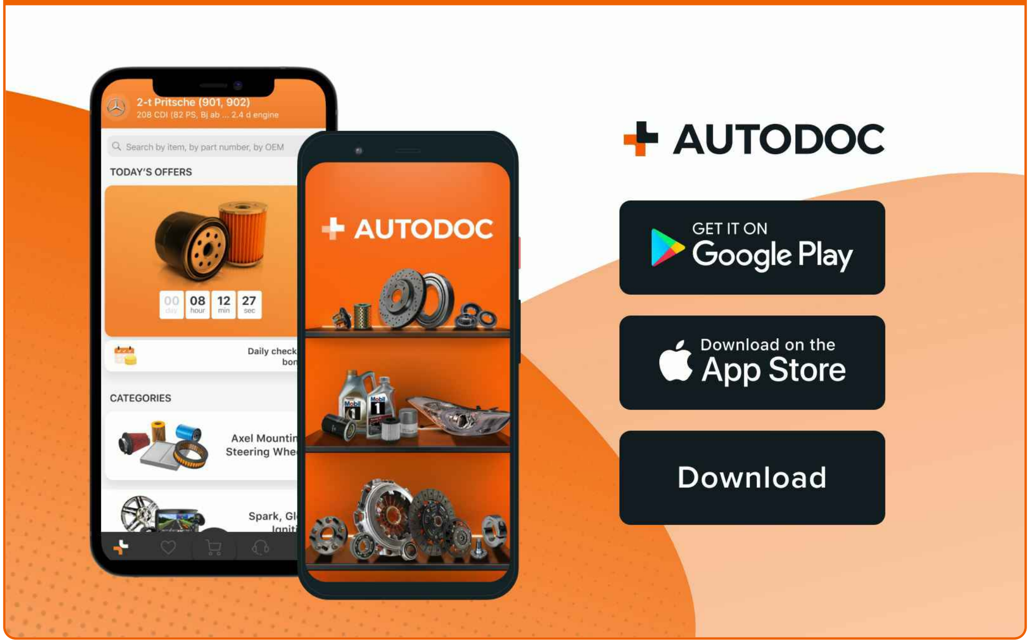


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